

Cycle view of the study programme

Bl Or Th Pr Au Cr

Cours au choix de la finalité (B2 : 30Cr)

Choose courses totalling 30 ECTS out of the following : (B2 : 30Cr)

- [...] Choose courses not already chosen for a total of 30 credits from the ULiège Faculty of Science or Applied Science course programme (including the ULiège Master of Civil Engineering in Aerospace programme), from the list below and/or from another institution's course programme. These choices must be backed up by a coherent choice of curriculum, approved by the Jury

SSTG0043-1	<i>Placement</i> - Marc GEORGES, Yaël NAZÉ, Grégor RAUW	B2	TA	-	140	-	10
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Cours obligatoire du tronc commun (B2 : 27Cr)

SMEM0029-1	<i>Final thesis</i> - COLLÉGIALITÉ	B2	TA	-	-	-	27
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Cours au choix du tronc commun (B1 : 60Cr, B2 : 3Cr)

Choose, in agreement with the Jury, classes for a total of 63 credits from the lists given below, including at least one of the first two classes from five of the six lists: (B1 : 60Cr, B2 : 3Cr)

Space sciences : interdisciplinary courses

SPAT0017-1	<i>Seminars on topical issues</i> (english language) - JeanRené CUDELL, Benoît HUBERT, Damien HUTSEMEKERS, Charles TROUPIN	B1	TA	-	30	-	3
SPAT0035-1	<i>Space exploration</i> (english language) - Grégor RAUW	B1	Q1	30	10	-	4
SPAT0001-1	<i>Plasma physics</i> (english language) - Benoît HUBERT	B1	Q2	25	5	-	4
SPAT0018-1	<i>Ideas evolution in astronomy</i> - Yaël NAZÉ	B1	Q1	14	6	-	2
SPAT0036-1	<i>Celestial mechanics and space trajectories</i> (english language) - Grégor RAUW	B1	Q1	25	10	-	4
SPAT0040-1	<i>Fluid mechanics</i> (english language) - Pierre DAUBY	B1	Q1	20	10	-	4

Cosmology, astroparticles and gravitational waves

SPAT0021-1	<i>Introduction to astroparticles</i> (english language) - JeanRené CUDELL	B1	Q2	30	-	-	3
SPAT0012-1	<i>General relativity</i> (english language) - Guillaume MAHLER	B1	Q1	30	10	-	4
SPAT0010-1	<i>Cosmology</i> (english language) - Guillaume MAHLER Corequisite : SPAT0012-1 - General relativity	B1	Q2	15	5	-	2
SPAT0160-1	<i>Particles ans astroparticles</i> (english language) - JeanRené CUDELL Corequisite : SPAT0162-1 - Quantum field theory	B1	Q2	20	10	-	4
SPAT0260-1	<i>Particles and gravitation</i> (english language) - JeanRené CUDELL Corequisite : SPAT0162-1 - Quantum field theory	B1	Q2	10	5	-	2
SPAT0162-1	<i>Quantum field theory</i> (english language) - JeanRené CUDELL Corequisite : SPAT0012-1 - General relativity	B1	Q1	20	10	-	4
PHYS2012-1	<i>Relativistic quantum mechanics and relativistic statistics</i> - Peter SCHLAGHECK	B1	Q1	20	5	-	3
SPAT0084-1	<i>Theory of gravitational waves</i> (english language) - Maxime FAYS Corequisite : SPAT0012-1 - General relativity	B1	Q1	20	10	-	4

Astrophysics

SPAT0033-1	<i>Astrophysics</i> (english language) - Michaël DE BECKER	B1	Q1	35	10	-	5
SPAT0044-1	<i>Stellar structure and evolution I</i> (english language) - MarcAntoine DUPRET	B1	Q1	35	-	-	3

Study programmes 2024-2025

Faculty of Sciences

Master in space sciences, research focus

SPAT0005-1	<i>Stellar stability and asteroseismology</i> (english language) - MarcAntoine DUPRET	B1	Q2	30	10	-	4
Corequisite :							
	SPAT0044-1 - Stellar structure and evolution I						
SPAT0006-1	<i>Stellar atmospheres</i> (english language) - Grégor RAUW	B1	Q2	20	10	-	3
SPAT0007-2	<i>Variable stars</i> (english language) - Grégor RAUW	B1	Q1	20	10	-	3
SPAT0008-1	<i>Interstellar medium</i> (english language) - Michaël DE BECKER, Valérie VAN GROTEL	B1	Q1	30	10	-	4
SPAT0009-1	<i>High-energy astrophysics</i> (english language) - Grégor RAUW	B1	Q1	25	5	-	3
SPAT0011-1	<i>Extragalactic astrophysics</i> (english language) - Guillaume MAHLER, Dominique SLUSE	B1	Q2	20	10	-	3
Corequisite :							
	SPAT0033-1 - Astrophysics						
SPAT0020-2	<i>Astrochemistry</i> (english language) - Michaël DE BECKER	B1	Q1	30	10	-	4
SPAT0045-1	<i>Stellar structure and evolution II</i> (english language) - MarcAntoine DUPRET	B1	Q2	20	20	-	3
Corequisite :							
	SPAT0044-1 - Stellar structure and evolution I						
SPAT0069-1	<i>Radio astrophysics</i> (english language) - Michaël DE BECKER	B1	Q2	25	10	-	4
Planetary science and planetary systems							
SPAT0055-1	<i>Atmosphere of the Earth</i> (english language) - Denis GRODENT	B1	Q1	45	-	-	4
SPAT0063-1	<i>Introduction to exoplanetology</i> (english language) - Olivier ABSIL, Michaël GILLON	B1	Q2	20	10	-	4
Corequisite :							
	SPAT0033-1 - Astrophysics						
SPAT0023-1	<i>Terrestrial magnetosphere and polar lights</i> (english language) - Benoît HUBERT	B1	Q2	30	10	-	4
SPAT0028-2	<i>Planetary magnetospheres and aurorae</i> (english language) - Bertrand BONFOND, Denis GRODENT	B1	Q2	20	10	-	3
SPAT0043-1	<i>The small bodies of the solar system</i> (english language) - Emmanuel JEHIN	B1	Q2	15	5	-	3
SPAT0048-5	<i>Earth's atmospheric and space environment</i> (english language) - <i>Space environment</i> - Denis GRODENT - <i>Applied space environment</i> - Denis GRODENT	B1	Q1 15 -		-	-	3
SPAT0056-1	<i>Planetary and exoplanetary atmospheres</i> (english language) - Denis GRODENT	B1	Q2	30	15	-	5
Corequisite :							
	SPAT0055-1 - Atmosphere of the Earth						
GEOL0263-1	<i>Astrobiology</i> (english language) - Vincianne DEBAILLE, Emmanuelle JAVAUX, Yaël NAZÉ, Annick WILMOTTE	B1	Q2	45	-	-	5
GEOG0670-1	<i>Active Tectonics and Seismology</i> (english language) - Clara BRERETON, HansBalder HAVENITH, Aurelia HUBERT - [2d FW]	B1	Q1	20	10	[+]	5
SPAT0066-1	<i>Internal geophysics of the Earth and terrestrial bodies of the solar system</i> (english language) - N...	B1	Q1	25	-	-	2
Climate, environment and oceanography							
SPAT0027-3	<i>Climate change and impacts</i> (english language) - Louis FRANÇOIS, Guy MUNHOVEN	B1	TA	30	30	-	5
OCEA0071-1	<i>Geophysical fluid dynamics - part 1</i> (english language) - JeanMarie BECKERS	B1	Q2	30	15	-	6

Study programmes 2024-2025

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Master in space sciences, research focus

SPAT0024-2	<i>Meteorology</i> (english language) - Part 1 - Louis FRANÇOIS - Part 2 - Louis FRANÇOIS	B1	Q1	20	10	-	6
SPAT0025-1	<i>Climate and environmental modelling</i> (english language) - Louis FRANÇOIS, Guy MUNHOVEN	B1	Q2	30	15	-	4
SPAT0026-1	<i>Paleoenvironment and evolution of the Earth system</i> (english language) - Louis FRANÇOIS	B1	Q2	30	10	-	4
SPAT0032-2	<i>Remote sensing</i> (english language) - François JONARD	B1	Q1	20	20	-	5
GEOG0037-1	<i>Global Navigation Satellite Systems</i> - René WARNANT	B1	Q1	40	15	-	5
GEOG0038-1	<i>GNSS data processing</i> - René WARNANT Corequisite : GEOG0037-1 - Global Navigation Satellite Systems	B1	Q1	25	30	-	5
OCEA0045-1	<i>Statistical methods of analysis of oceanographic data</i> (english language) - N...	B1	Q1	20	10	-	3
OCEA0087-1	<i>Satellite oceanography</i> (english language) - Aida ALVERA AZCARATE	B1	Q1	15	15	-	3
OCEA0072-1	<i>Geophysical fluid dynamics - part 2</i> (english language) - JeanMarie BECKERS Corequisite : OCEA0071-1 - Geophysical fluid dynamics - part 1	B1	Q1	30	15	-	5
OCEA0081-1	<i>Numerical Methods in Geophysics - Part 2</i> (english language) - JeanMarie BECKERS	B1	Q1	15	30	-	5

Instrumentation and methods for space sciences

SPAT0068-1	<i>Astrophysical observations</i> (english language) - Emmanuel JEHIN - [5d FW]	B1	Q2	15	15	[+]	6
SPAT0002-1	<i>Statistical methods and data analysis</i> (english language) - Valentin CHRISTIAENS, Maxime FAYS, Guy MUNHOVEN, Dominique SLUSE	B1	Q1	20	30	-	5
PHYS0048-3	<i>Coherent and incoherent optics, Instrumental optics I</i> (english language) - Serge HABRAKEN	B1	Q1	20	15	-	4
SPAT0015-1	<i>Signal acquisition and processing : application to embedded systems</i> - N... (Even years)	B1	Q2	10	30	-	4
PHYS0125-3	<i>Instrumental optics II</i> (english language) - Serge HABRAKEN Corequisite : PHYS0048-3 - Coherent and incoherent optics	B1	Q2	25	15	-	4
SPAT0067-1	<i>Atmospheric and adaptive optics</i> (english language) - Olivier ABSIL	B1	Q2	15	5	-	2
SPAT0085-1	<i>Analysis methods in gravitational-wave astronomy</i> (english language) - Maxime FAYS	B1	Q2	20	10	-	4
SPAT0086-1	<i>Advanced data analysis in python and introduction to machine learning</i> (english language) - Valentin CHRISTIAENS, Maxime FAYS, Guy MUNHOVEN, Dominique SLUSE	B1	Q2	15	25	-	4

[...] In agreement with the jury, chose a course that hasn't already been chosen worth 3 credits from the lists offered in Block 1

Additional ECTS (max 15-60) Master in space sciences (120 ECTS)

Optional courses (B0 : 60Cr)

The update course, worth a maximum of 60 credits, will be determined based on students' prior training. (B0 : 60Cr)

Study programmes 2024-2025
Faculty of Sciences
Master in space sciences, research focus

[...] Between 15 and 60 ECTS of courses